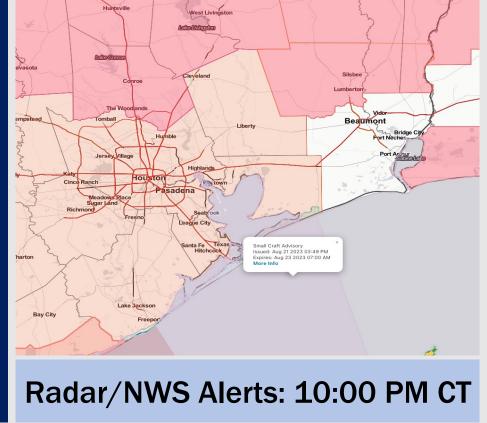
# **Houston Pilots Forecast Package**

Updated: 10:00 PM CT Monday, August 21, 2023

**Forecaster: Jonathan Kipper** 

### **Weather Headlines**

- Tropical system expected to stay south. However, wave heights near 6' will be possible, mainly into TUE AM for Boarding Station.
- Bulk of precipitation chances look to go south. However, scattered storms will still be possible.
- A few minor precipitation chances exists later into the week with limited wind issues.



Houston Pilots



As always, please do not hesitate to reach out to us with any forecast questions via the chat option on the Weather Porthole or our on-call number, (317)-560-8122 press 1 for forecast questions.

### **Houston Pilots Tropical Update**



Port Condition	34 KTS+ Sustained Winds	6 Foot Waves	Time Remaining/Trigger End							
Victor	N/A	N/A	N/A							
Whiskey	N/A	N/A	N/A							
X-Ray	N/A	N/A	N/A							
Yankee	N/A	N/A	N/A							
Zulu	NO	IN EFFECT	1 PM CT TUE							
Port Condition	Trigger	Trigger Reached?								
Victor	Hurricane entering/developing in Gu	the area No								
Whiskey	72 hours prior to predicted	No								
X-Ray	48 hours prior to predicted sustaine	48 hours prior to predicted sustained winds of 34+ KTS or 6' wave height								
Yankee	24 hours prior to predicted sustaine	ed winds of 34+ KTS or <mark>6' wave</mark>	e height Yes							
Zulu	12 hours prior to predicted sustaine	d winds of 34+ KTS or <mark>6' wave</mark>	e height Yes							

Data continues to maintain 5-6' wave height potential associated with TUE tropical depression toward the HOU area. While there is lower confidence the 6'+ wave height threshold is met for nearshore stations, data trends have made this an associated risk relating to storm swells as a result of incoming storm.

- The timing most at risk to see these increased wave heights would be 4 AM to 1 PM TUE. The boarding station is at greatest risk to see these wave heights. ALL OTHER STATIONS WILL REMAIN WELL BELOW 6' THRESHOLD WITH HIGH CONFIDENCE.
- ➤ The core of the tropical system will make landfall toward TX/MX border.

## **Houston Pilots Tropical Update**



#### **Tropical Depression Nine System Track**



Tropical Depression 9 expected to reach Tropical Storm Status by early evening. Hurricane development is not favored.

Regardless, this system is anticipated to make landfall well south of the Houston area with very good model agreement/ consensus. Current timing is around 6 – 9 AM TUE morning for this to occur.

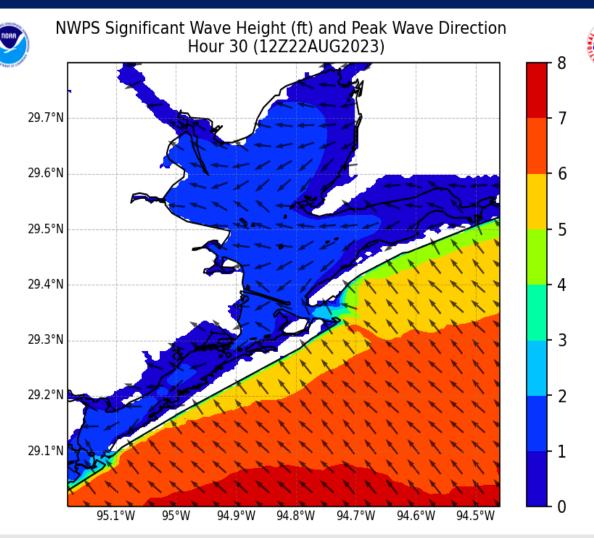
Winds at Houston will be elevated from this system allowing for sustained winds around 20 – 25 knots in general with gusts of 25-30 knots to locally 35 knots.

Of greatest concern will be wave heights. Significant Wave heights will be flirting with the 6' threshold. With current anticipation for a general 5 – 6' wave heights tomorrow morning/ afternoon (more info on the following slide).

## **Houston Pilots Tropical Update**



#### Significant Wave Heights at 7 AM CT TUE



The image to the left shows the peak wave heights and peak wave direction associated with the incoming tropical system.

The best time frame for peak wave heights in the 5' – 6' range are 4 AM TUE – 1 PM TUE.

### Houston Pilots Visibility Chart (miles)



### Forecast Confidence



		Mon 9pm			Tue 12am	Tue 1am	Tue 2am	Tue 3am	Tue 4am	Tue 5am	Tue 6am	Tue 7am	Tue 8am	Tue 9am	Tue 10am		Tue 12pm	Tue 1pm	Tue 2pm		Tue 4pm	Tue 5pm	Tue 6pm	Tue 7pm	Tue 8pm	Tue 9pm	Tue 10pm	Tue 11pm	Wed 12am	Wed 1am	Wed 2am	Wed 3am				Wed 7am
610 Bridge	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	8	6	6	5
Kinder 1	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	8	7	7	5
Greens Bayou	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	8	8	8	6
Shell Crude	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	8	8	8	8
Lynchburg Ferries	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	8	8	8	8
Exxon 3	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	8	8
Morgans Point	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	9
75/76	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
63/64	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
51/52	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
37/38	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
25/26	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
11/12	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
1 & 2 Bravo	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10

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# **Houston Pilots Wind Chart**







Time	Mon	Mon	Mon	Mon	Tue	Tue	Tue	Tue	Tue	Tue	Tue	Tue	Tue	Tue	Tue	Tue	Tue	Tue	Tue	Tue	Tue	Tue	Tue	Tue	Tue	Tue	Tue	Tue	Wed	Wed	Wed	Wed	Wed	Wed	Wed	Wed
Knots	8pm	9pm	10pm	11pm	12am	1am	2am	3am	4am	5am	6am	7am	8am	9am	10am	11am	12pm	1pm	2pm	3pm	4pm	5pm	6pm	7pm	8pm	9pm	10pm	11pm	12am	1am	2am	3am	4am	5am	6am	7am
610 Bridge	11	10	9	8	8	8	8	7	7	8	9	9	10	11	11	12	13	14	14	14	14	14	14	13	11	9	7	6	5	5	4	3	2	2	2	2
	16	15	14	13	12	12	12	10	11	12	13	13	15	16	17	18	19	21	22	21	22	22	21	20	17	14	11	9	8	7	6	5	4	3	2	2
	ESE	ESE	ESE	E	E	E	E	ENE	ENE	ENE	ENE	ENE	ENE	E	E	E	E	ESE	ESE	ESE	ESE	ESE	ESE	SE	SE	SE	SE	SE	SE	SE	SE	SE	ESE	NE	NNE	NNE
Kinder 1	11	10	9	8	8	8	8	7	7	8	9	9	10	11	11	12	13	14	14	14	14	14	14	13	11	9	7	6	5	5	4	3	2	2	2	2
	16	15	14	13	12	12	11	10	11	12	13	13	15	16	17	18	19	20	21	21	21	22	21	19	17	14	11	9	8	7	6	5	4	2	2	2
	ESE	ESE	ESE	E	E	E	E	ENE	ENE	ENE	ENE	ENE	ENE	E	E	E	ESE	SE	SE	SE	SE	SE	SE	SE	SE	SE	ESE	NE	NNE	NNE						
Greens Bayou	11 16 ESE	9 15 ESE	9 14 ESE	8 13 E	7 11 E	8 12 E	7 11 E	7 10 ENE	7 11 ENE	8 12 ENE	8 13 ENE	8 13 ENE	10 15 ENE	10 16 E	11 17 E	12 17 E	13 18 ESE	13 19 ESE	14 20 ESE	14 20 ESE	14 21 ESE	14 21 SE	13 20 SE	13 19 SE	11 17 SE	9 14 SE	7 11 SE	6 9 SE	5 8 SE	5 7 SE	4 6 SE	3 5 SE	2 4 ESE	2 2 NNE	1 2 NNE	2 2 NNE
Shell Crude	11	10	9	8	8	8	8	7	8	8	9	9	10	10	11	13	13	13	14	14	14	14	14	13	11	9	7	6	5	5	4	3	3	2	2	2
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	ESE	ESE	ESE	E	E	E	E	ENE	ENE	ENE	ENE	ENE	ENE	E	E	E	ESE	ESE	ESE	ESE	ESE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	ESE	NNE	NNE	NNE
Lynchburg Ferries	11 16 SE	10 15 SE	10 14 ESE	9 12 ESE	8 11 E	8 11 E	8 11 E	7 10 E	8 11 ENE	8 12 ENE	9 12 ENE	9 12 ENE	10 14 ENE	11 15 E	11 17 E	13 17 E	13 18 ESE	14 19 ESE	14 20 ESE	14 20 ESE	14 21 SE	15 21 SE	14 20 SE	14 19 SE	11 16 SE	10 13 SE	8 11 SE	7 9 SE	6 8 SE	5 7 SE	4 6 SE	4 5 SE	3 4 E	2 3 NNE	2 3 NNE	2 3 NNE
Exxon 3	12	11	10	9	9	9	9	9	9	9	9	9	10	11	12	13	13	14	14	15	15	15	15	14	12	10	9	7	6	6	5	5	4	3	2	3
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	ESE	ESE	ESE	ESE	E	E	E	E	ENE	ENE	ENE	ENE	ENE	E	E	E	ESE	ESE	ESE	ESE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	ENE	NNE	NNE
Morgans Point	13 17 ESE	13 16 ESE	12 14 ESE	11 14 ESE	11 14 E	11 14 E	11 14 E	11 14 E	12 14 E	12 15 ENE	12 15 ENE	12 15 ENE	12 16 ENE	13 16 E	13 17 E	14 17 E	14 18 ESE	15 20 ESE	15 21 ESE	16 22 ESE	16 22 SE	17 22 SE	16 20 SE	15 19 SE	13 17 SE	12 15 SE	10 13 SE	9 11 SE	8 10 SSE	7 9 SE	7 9 SSE	6 8 SE	5 6 SSE	4 5 SE	3 4 NE	4 4 NNE
75/76	16	16	14	14	14	15	15	15	16	16	16	16	16	15	16	16	16	16	17	18	18	18	18	17	16	14	13	12	11	10	9	8	6	5	4	4
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63/64	17	17	15	15	16	16	17	17	17	18	18	18	17	17	18	17	18	17	17	18	18	18	18	17	16	14	13	12	11	10	9	8	6	5	4	4
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	ESE	ESE	ESE	E	E	E	E	E	E	E	E	E	E	E	E	E	ESE	SE	SE	SE	SE	SE	SE	SE	SSE	SSE	SSE	SSE	SE	NE						
51/52	17	16	14	15	16	16	17	17	17	17	18	17	17	17	18	17	18	17	17	18	17	17	17	16	15	14	13	12	11	10	9	8	6	5	4	4
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	ESE	ESE	ESE	E	E	E	E	E	E	E	E	E	E	E	E	E	E	ESE	SE	SE	SE	SE	SE	SE	SSE	SSE	SSE	SE	ENE							
37/38	16	15	14	15	17	17	17	17	17	18	18	18	18	18	18	18	18	17	17	17	17	16	16	15	14	13	12	11	10	9	8	7	6	4	3	3
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	ESE	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	ESE	SE	SE	SE	SE	SE	SE	SSE	SSE	SSE	SE	E						
25/26	15 17 E	13 16 E	13 16 E	14 17 E	16 18 E	16 18 E	16 18 E	16 19 E	17 19 E	17 20 E	17 20 E	18 20 E	17 20 E	17 19 E	17 20 E	17 20 E	17 20 E	16 19 E	16 19 ESE	16 20 ESE	16 20 ESE	14 18 ESE	14 17 ESE	13 16 ESE	12 15 ESE	11 13 SE	10 13 SE	10 12 SE	9 11 SE	8 10 SE	8 9 SE	8 SSE	6 6 SSE	4 5 SSE	3 4 SE	3 3 E
11/12	14	13	14	14	16	16	16	17	17	18	17	18	17	17	17	16	17	16	16	16	16	14	14	13	12	11	11	10	9	8	8	7	5	4	4	3
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	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	ESE	SE	SE	SE	SE	SE	SE	SSE	SSE	SSE	SE	ESE						
1 & 2 Bravo	16 18 E	16 18 E	17 19 E	18 19 E	20 21 E	20 22 E	20 22 E	20 22 E	21 22 E	21 23 E	21 23 E	21 23 E	21 22 E	20 21 E	20 22 E	19 21 E	19 21 E	18 19 E	17 18 ESE	17 18 ESE	17 18 ESE	16 17 ESE	15 16 ESE	14 15 ESE	14 15 ESE	13 14 SE	13 14 SE	12 13 SE	12 13 SE	10 11 SE	9 10 SE	8 9 SSE	8 SSE	6 SSE	5 5 SSE	4 5 ESE

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## Houston Pilots: Tue. 8/22/2023



#### **Forecast Discussion**

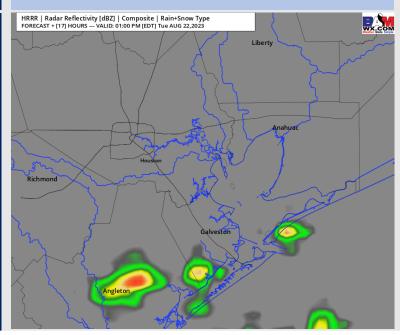
Precip: Continue to favor the bulk of storms to stay south of Houston. However, a few scattered storms will be possible starting between 7 AM (around 20%). Into the afternoon about 25% chances exist through about 7 PM.

Wind: ESE winds continue to drive into the HOU area through the morning hours of TUE. Towards the boarding station, winds are expected to be 17 - 23 knots sustained with gusts near 26 - 30 knots, locally up to 35 knots. Between Morgan's point and and the boarding station, sustained winds are expected to generally be 14 - 19 knots sustained with gusts up to 23 - 28 knots and will have more of an easterly component. Winds into the afternoon will start to gradually wane after 2 - 4 PM for locations south of Morgan's Point. By 6 PM, winds are expected to be from the SE sustained around 13 - 17 knots for locations south of Morgan's Point with gusts near 20 knots possible. Winds north of Morgan's Point anticipated to be 3-8 kts through 10 AM before gradually increasing to 12-17kts by 12 PM and continuing the rest of the day (gusts up to 22 kts possible in afternoon).

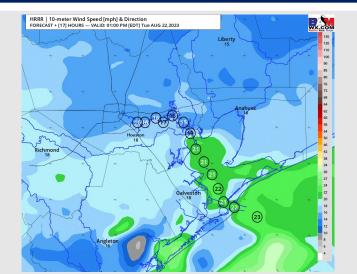
High Temps: S of Morgan's Point: Low 90's F. N of Morgan's Point: Mid-to-upper 90's F.

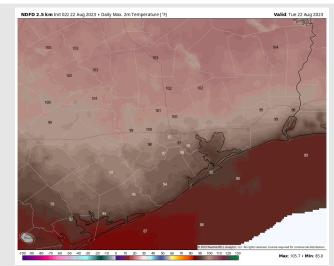
Visibility: Brief Periods of reduced visibility near the Boarding Station associated with heaviest downpours.

#### Precip Image: 12 PM CT



Wind Speed: 12 PM CT





High Temps Tuesday

# Houston Pilots: Wed. 8/23/2023



#### **Forecast Discussion**

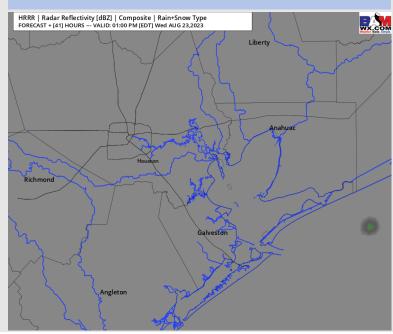
**Precip:** Dry weather is favored on Wednesday outside of a 10% risk of a passing shower during the 12-5 PM timeframe.

Wind: Winds will be out of the SE WED before shifting to out of the NE by 10 AM. Through 5 PM, winds will gradually veer until out of the S/SW the rest of the day. Winds N of Morgan's Point will be 2-7kts through 4 PM before increasing to 5-10kts the rest of the day. S of Morgan's Point, winds will decrease from 8-13 kts to 2-7kts by 7 AM and remain there until 4 PM. After 4 PM, winds increase to 10-15kts the rest of the day.

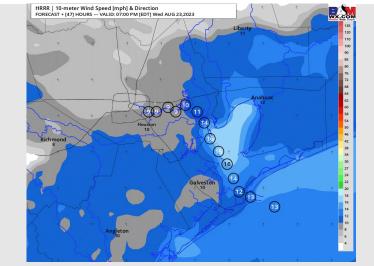
High Temps: S of Morgan's Point: Low 90s F. N of Morgan's Point: Upper 90s/Near 100 F.

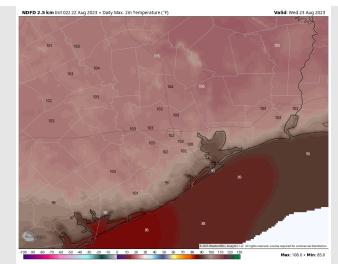
Visibility: Low end risk of patchy fog between 4-8 AM CT WED (not anticipated to be a widespread threat).

#### Precip Image: 4 PM CT



Wind Speed: 6 PM CT





High Temps Wednesday

# Houston Pilots: Thu. 8/24/2023



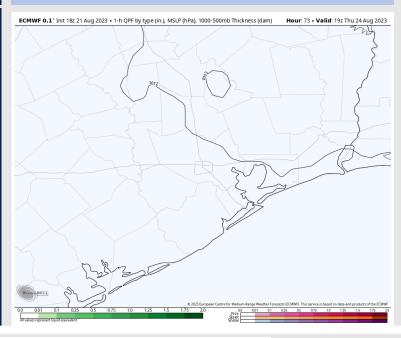
#### **Forecast Discussion**

**Precip:** Dry conditions anticipated on Thursday.

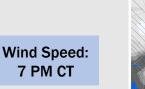
Wind: Winds will start out of the W/SW in the early morning before veering to out of the NW by 5 AM. After 12 PM, winds will gradually shift to being out of the SW by 5 PM and continue there the rest of the evening. Winds North of Morgan's Point will be 3-8 kts the entire day. Winds South of Morgan's Point will be 7-12 kts throughout the entire day outside of a slight decrease to 4-9kts from 11 AM – 3 PM.

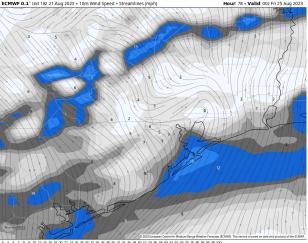
Low Temps: S of Morgan's Point: Low 90's F. N of Morgan's Point: Low 100s F.

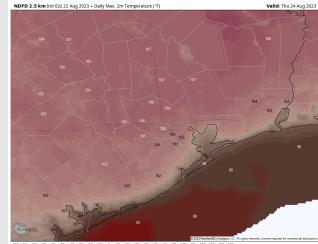
#### Precip Image: 2 PM CT



Visibility: No visibility issues expected on Thursday.



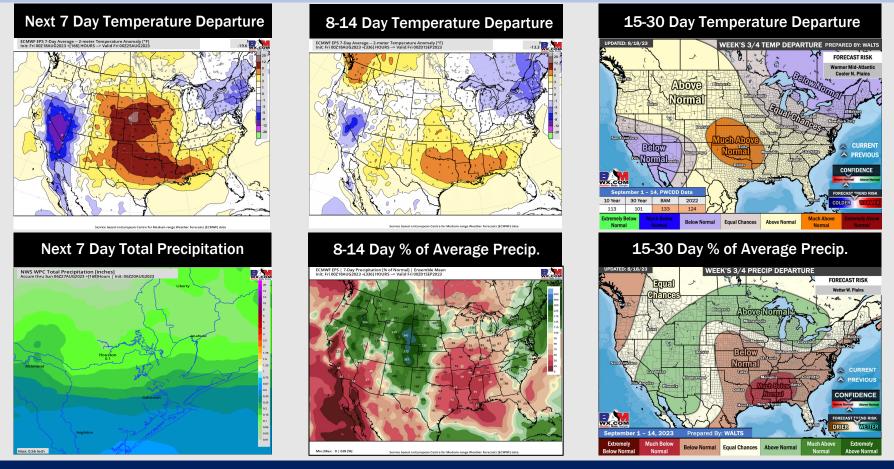




High Temps Thursday

### Houston Pilots: 8/21/23





- Tuesday will be the "best" precip chance over the next several days with only minor/ isolated chances deeper into the week.
- Expecting below normal precipitation chances and above normal temperatures for the week 2 timeframe.
- Above normal temperatures and below normal chances for precipitation are favored in the weeks <sup>3</sup>/<sub>4</sub> timeframe.